

Contributors to This Issue

Harry W. Astle, A.A.S., 1966, Hartford State Technical College, Bell Laboratories, 1966-1978. Mr. Astle first worked with optical gas lenses and was engaged in the fabrication and evaluation of optical fibers. He is currently with the Singer Company, Binghamton, N.Y.

David A. Berkley, B.E.E., 1961, Ph.D. (Applied Physics), 1966, Cornell University; Bell Laboratories, 1968—. Upon joining Bell Laboratories, Mr. Berkley initially worked in nonlinear speech signal processing and hearing research. He is presently supervisor of the Electroacoustics and Acoustic Signal Processing Group. He is currently conducting research in the areas of small room acoustics, reverberation reduction, echo control, conference telephony, and transducers. Member, Acoustical Society of America, AAAS, Eta Kappa Nu, Tau Beta Pi.

L. M. Boggs, B.S. (E.E.), 1963, Clemson University; M.S. (E.E.), 1965, Georgia Institute of Technology; Lockheed-Georgia Company Research Center, 1963-1971; Western Electric, 1971—. Mr. Boggs has worked on the development of electronic and optical systems applicable to aircraft manufacture and operation. He has developed several measurement systems used in the manufacture of communication cable. Most recently, he has been responsible for the development of measurement equipment for characterizing lightguide cable products.

Leonard G. Cohen, B.E.E., 1962, City College of New York; Sc.M., 1964, and Ph.D. (Engineering), 1968, Brown University; Bell Laboratories, 1968—. At Brown University, Mr. Cohen was engaged in research on plasma dynamics. At Bell Laboratories, he has concentrated on optical fiber transmission studies. Member, Sigma Xi, Tau Beta Pi, Eta Kappa Nu; senior member, IEEE.

James L. Flanagan, B.S. (Electrical Engineering), 1948, Mississippi State University; S.M., 1950, and Sc.D., 1955, Massachu-

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James W. Fleming, B.S., 1970 and M.S. 1971 in Cer. E., University of Missouri at Rolla; Research Associate, University of Missouri, 1971-1972; Bell Laboratories, 1972—. Mr. Fleming has worked on the design and properties of PTCR thermistors and other polycrystalline materials for communication applications. Since 1973, he has been developing techniques for the preparation of high melting oxide glass compositions such as those used in lightguides and examining the properties of these glasses. He is currently involved in analysis of dispersion in optical materials and characterizing lightguide core composition profiles. Mr. Fleming is pursuing a Ph.D. in Cer. Sci. at Rutgers University and is a member of the American Ceramic Society.

Dietrich Marcuse, Dipl. Phys., 1954, Berlin Free University; D.E.E., 1962, Technische Hochschule, Karlsruhe, Germany, Siemens and Halske (Germany), 1954-1957; Bell Laboratories, 1957—. At Siemens and Halske, Mr. Marcuse was engaged in transmission research and studying coaxial cable and circular waveguide transmission. At Bell Laboratories, he has been engaged in studies of circular electric waveguides and work on gaseous masers. He spent one year (1966-1967) on leave of absence from Bell Laboratories at the University of Utah. He is presently working on the transmission aspect of a light communications system. Mr. Marcuse is the author of three books. Fellow, IEEE; fellow, Optical Society of America.

Gerry Miller, B.E.S., 1963, Ph.D., 1969, Johns Hopkins University; Bell Laboratories, 1969—. Mr. Miller is a member of the Interconnection Performance Planning Department and is currently involved in planning for operational compatibility at equipment-to-equipment interfaces. He has worked on the development of longitudinal balance and signal power requirements for voiceband terminal equipment. Member, Tau Beta Pi, Eta Kappa Nu, Sigma Xi.

F. W. Mounts, E.E., 1953, M.S., 1956, University of Cincinnati; Bell Laboratories, 1956—. Mr. Mounts has been concerned with research

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Lawrence R. Rabiner, S.B. and S.M., 1964, Ph.D. (electrical engineering), Massachusetts Institute of Technology; Bell Laboratories, 1962—. From 1962 through 1964, Mr. Rabiner participated in the cooperative plan in electrical engineering at Bell Laboratories. He worked on digital circuitry, military communications problems, and problems in binaural hearing. Presently, he is engaged in research on speech communications and digital signal processing techniques. He is coauthor of *Theory and Application of Digital Signal Processing* (Prentice-Hall, 1975) and *Digital Processing of Speech Signals* (Prentice-Hall, 1978). Former President, IEEE G-ASSP Ad Com; former Associate Editor, G-ASSP Transactions; former member, Technical Committee on Speech Communication of the Acoustical Society. Member, G-ASSP Technical Committee on Speech Communication, IEEE Proceedings Editorial Board, Eta Kappa Nu, Sigma Xi, Tau Beta Pi. Fellow, Acoustical Society of America and IEEE.

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Thomas C. Spang, B.E., 1956, M.E., 1958, and D. Eng., 1961, Yale University; Bell Laboratories, 1960—. Mr. Spang has been responsible for systems engineering studies to establish recommendations for the public and private networks. Currently, he supervises a group concerned with registration and performance standards in the Interconnection Performance Planning Department.

Kenneth A. Walsh, A.A.S. (E.E.), Kent State University, Salem, Ohio, 1969; Bell Laboratories, 1969—. Mr. Walsh's work has been mainly concerned with the investigation of efficient digital coding techniques, using both hardware and software methods, with application to video and facsimile transmissions.